



KBP3005G THRU KBP310G

BRIDGE RECTIFIERS

FEATURES

- UL Recognized File # E469616
- Reliable low cost construction utilizing molded plastic technique
- Ideal for printed circuit board
- Low forward voltage drop
- Low reverse leakage current
- High surge current capability
- Glass passivated chip junction

MECHANICAL DATA

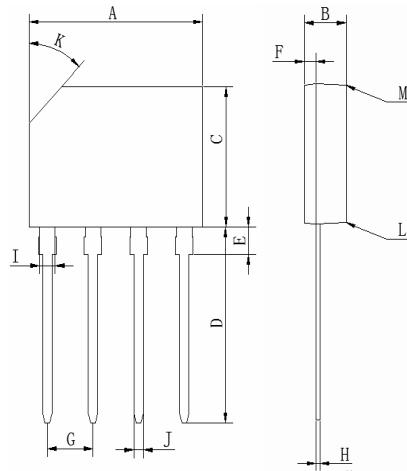
Case: Molded plastic, KBP

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed

Mounting position: Any

Weight: 0.053ounce, 1.5gram



KBP Unit:mm		
DIM	MIN	MAX
A	14.25	14.75
B	3.35	3.65
C	10.2	10.6
D	14.3	14.8
E	1.8	2.2
F	0.8	1.1
G	3.56	4.06
H	0.3	0.55
I	1.22	1.42
J	0.76	0.86
K	2.7X45°(Typ.)	
L	-	3°
M	-	3°

All Dimensions in millimeter

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	KBP3005G	KBP301G	KBP302G	KBP304G	KBP306G	KBP308G	KBP310G	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T _A =50	I _(AV)						3.0		Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}						80		Amp
Maximum Forward Voltage at 3.0A DC and 25	V _F					1.0			Volts
Maximum Reverse Current at T _A =25 at Rated DC Blocking Voltage T _A =100	I _R				10.0	500			uAmp
Typical Junction Capacitance (Note 1)	C _J				25				pF
Typical Thermal Resistance (Note 2)	R _{0JA}				30				/W
Typical Thermal Resistance (Note 2)	R _{0JL}				11				/W
Operating and Storage Temperature Range	T _J , T _{stg}				-55 to +150				

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted.



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 Forward Current Derating Curve

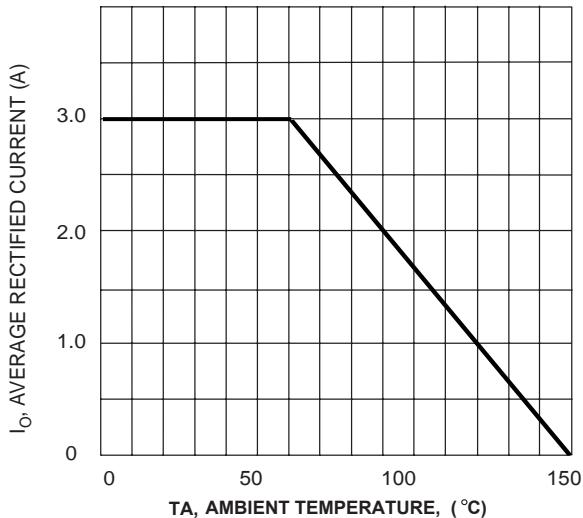


Fig. 2 Typical Fwd Characteristics

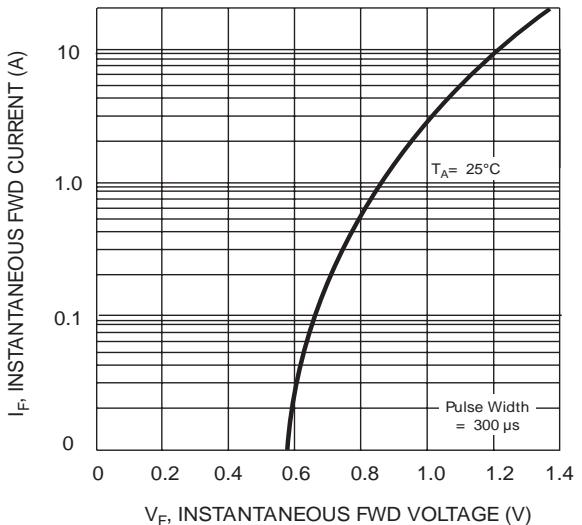


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

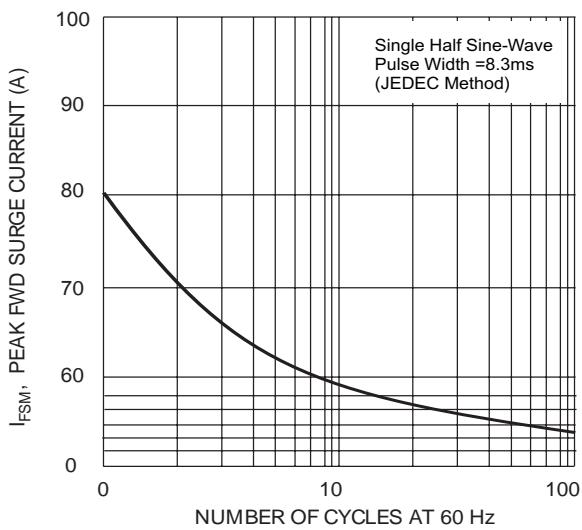


Fig. 4 Typical Junction Capacitance

